

Nuclear Structure 2010 Agenda

Monday, August 9th

Chair: Hamamoto

- 9:00 – 9:15 Symons (LBNL) – Welcome and Introduction
- 9:15 – 9:45 Tanihata (Osaka) – Halo Nuclei. (25+5)
- 9:45 – 10:05 Potel (Milan) – Cooper Pairing in Exotic Nuclei. (15+5)
- 10:05 – 10:25 Kobayashi (TIT, Tokyo) – Inclusive Coulomb and Nuclear Breakup of ^{31}Ne and ^{22}C . (15+5)
(Refreshments available)
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Chair: Gade

- 11:00 – 11:20 Wiedenhoever (FSU) – Triple shape coexistence in the N=28 isotope ^{44}S . (15+5)
- 11:20 – 11:40 Petri (LBNL) – Lifetime measurements of the 2^+ state in ^{16}C and ^{20}C : Electromagnetic transition rates at the limit of stability. (15+5)
- 11:40 – 12:00 Wuosmaa (W. Mich) – How exotic is ^{16}C ? Study of the $^{15}\text{C}(d,p)$ reaction with HELIOS. (15+5)
- 12:00 – 12:20 Iwasaki (MSU) – Spectroscopy of light exotic nuclei and isospin properties of the shell evolution. (15+5)
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Chair: Tabor

- 14:00 – 14:30 Otsuka (Tokyo) - Nuclear forces and shell evolution in exotic nuclei. (25+5)
- 14:30 – 14:50 Kroell (Darmstadt) – Exploring the island of inversion by transfer reactions. (15+5)
- 14:50 – 15:10 Paschalis (LBNL) – The deformed 0^+ state in ^{34}Si . (15+5)
- 15:10 – 15:30 Goergen (Saclay) – Onset of collectivity in neutron-rich Fe isotopes: Toward a new island of inversion? (15+5)
(Refreshments available)
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Chair: Fahlander

- 16:00 – 16:30 Alahari (GANIL) - Modern Rutherford Experiment: Tunneling of the Most Neutron-Rich Nucleus, ^8He . (25+5)
- 16:30 – 16:50 Effenauer (TRIUMF) – Mass Measurements on Halo Nuclei in Penning Traps. (15+5)
- 16:50 – 17:10 Spyrou (MSU) – Nuclear structure along the neutron drip line. (15+5)
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Nuclear Structure 2010 Agenda

Tuesday, August 10th

Chair: Dilling

- 9:00 – 9:30 Bertsch (U. Wash) – Global theories of nuclear structure. (25+5)
- 9:30 – 10:00 Casten (Yale) – Interpreting nuclear structure from minimal data. (25+5)
- 10:00 – 10:20 Frauendorf (Notre Dame) – Wigner term generated by isovector p-n pairing. (15+5)
(Refreshments available)
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Chair: Sun

- 11:00 – 11:20 Dracoulis (ANU) – Links between high-K and low-K states in ¹⁷⁶Lu and ¹⁸⁰Ta. (15+5)
- 11:20 – 11:40 Reed (Surrey) – Discovery of high-spin long-lived K-isomers in neutron-rich tantalum and hafnium isotopes using the experimental storage ring (ESR) at GSI. (15+5)
- 11:40 – 12:00 Berryman (LBNL) – Spectroscopy of the heaviest elements: Excited states in ²⁶¹Sg (Z=106), ²⁵⁷Rf (Z=104), and ²⁵³No (Z=102). (15+5)
- 12:00 – 12:20 Chowdhury (Lowell) – Spectroscopy of neutron-rich plutonium nuclei. (15+5)
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Chair: Sarantites

- 14:00 – 14:20 Mengoni (UWS Paisley) – Lifetime measurements of excited states in neutron-rich ^{44,46}Ar populated in multinucleon transfer reactions. (15+5)
- 14:20 – 14:40 Winkler (MSU) – Measurement of the quadrupole transition strength of Ar and Cl isotopes near N=28. (15+5)
- 14:40 – 15:00 Ideguchi (CNS, Tokyo) – Superdeformed band in asymmetric N>Z nucleus, ⁴⁰Ar. (15+5)
- 15:00 – 15:20 Stuchbery (ANU) – Progress in excited state moment measurements with radioactive beams. (15+5)
(Refreshments available)
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Chair: Gregorich

- 16:00 – 16:30 Rykaczewski (ORNL) – Synthesis of a new element with atomic number Z=117. (25+5)
- 16:30 – 16:50 Ellison (LBNL) – Independent verification and isotope discovery using the ²⁴²Pu(⁴⁸Ca,3-5n)²⁸⁷⁻²⁸⁵114 nuclear reactions. (15+5)
- 16:50 – 17:10 Andersson (Liverpool) – TASI Spec: The next step in superheavy element spectroscopy. (15+5)
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- 18:00 – 20:00 Poster Presentations (BBQ Dinner – Great Hall)
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Nuclear Structure 2010 Agenda

Wednesday, August 11th

Chair: Caprio

- 9:00 – 9:30 Pieper (ANL) - Quantum Monte Carlo ab-initio calculations. (25+5)
- 9:30 – 9:50 Navratil (LLNL) – Ab-initio many-body calculations of weakly-bound and unbound states in light nuclei. (15+5)
- 9:50 – 10:10 McCutchan (ANL) – Precision lifetimes in the mirror pair of ^{10}C and ^{10}Be . (15+5)
- 10:10 – 10:30 Schmitt (U. Tenn.) – Results of a recent $^{10}\text{Be}(d,p)$ experiment populating the low-lying levels of ^{11}Be . (15+5)
(Refreshments available)
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Chair: Clark

- 11:00 – 12:00 Keane (LLNL) – The Science of the National Ignition Facility
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- 12:50 - National Ignition Facility Tour ([Bus to LLNL](#))
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Nuclear Structure 2010 Agenda

Thursday, August 12th

Chair: Cline

- 9:00 – 9:30 Bhowmik (IUAC, Delhi) – Physics using Indian National Gamma Array – Recent Results. (25+5)
- 9:30 – 9:50 Paul (Liverpool) – Relative quadrupole moments of exotic shapes at high spin in ^{154}Er : calibrating the TSD/SD puzzle. (15+5)
- 9:50 – 10:10 Bark (iThemba) – Octupole excitations in U isotopes. (15+5)
- 10:10 -10:30 Carpenter (ANL) – High spin studies of $^{236,238}\text{Np}$: disappearance of the $j_{15/2}$ quasiparticle alignment at N=144-146. (15+5)
(Refreshments available)
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Chair: de Angelis

- 11:00 – 11:20 Jenkins (York) – Superdeformation and clustering in ^{24}Mg and ^{28}Si . (15+5)
- 11:20 – 11:40 Finlay (Guelph) – Ultra-high precision half-life and branching-ratio measurements for the superallowed π^+ emitter ^{26m}Al . (15+5)
- 11:40 – 12:00 Rogers (ANL/MSU) – Ground-state proton decay of ^{69}Br . (15+5)
- 12:00 – 12:20 Draayer (LSU) – Symmetry guided ab-initio approach to light and medium mass nuclei. (15+5)
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Chair: Nakamura

- 14:00 – 14:20 Hagen (ORNL) – Coupled-cluster approach to medium-mass and neutron-rich nuclei. (15+5)
- 14:20 – 14:40 Gibelin (GANIL) – Structure beyond the neutron drip line: ^9He . (15+5)
- 14:40 – 15:00 Kondo (TIT, Tokyo) – Study of the unbound nucleus ^{13}Be . (15+5)
- 15:00 – 15:20 Hoffman (ANL/FSU) – Two neutron cascade at the oxygen drip line. (15+5)
(Refreshments available)
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Chair: Lenzi

- 16:00 – 16:30 Gorska (GSI) – Nuclei near ^{132}Sn . (25+5)
- 16:30 – 16:50 Kay (ANL) – Single-neutron adding on $^{130,136}\text{Xe}$ using HELIOS. (15+5)
- 16:50 – 17:10 Matsuo (Niigata) – Anomalous pair vibrational states in neutron-rich Sn isotopes beyond A=132. (15+5)
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- 18:00 – 20:00 Poster Award Session (Dinner – Great Hall)
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Nuclear Structure 2010 Agenda

Friday, August 13th

Chair: Haas

- 9:00 – 9:20 Deacon (Manchester) – Deformation in the mid fp shell: isomer tagging in ^{59}Cr . (15+5)
- 9:20 – 9:40 Zhu (ANL) – Deformation in the neutron-rich region around N=40. (15+5)
- 9:40 – 10:00 Miller (U. Tenn.) – Electromagnetic transition rates in ^{70}Ni and ^{72}Ni . (15+5)
- 10:00 – 10:20 Tostevin (Surrey) – Nucleon removal and pick-up reaction spectroscopy at fragmentation beam energies: Advances and applications. (15+5)
(Refreshments available)
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Chair: Riedinger

- 11:00 – 11:30 Nishimura (RIKEN) – First Decay Spectroscopy at RIBF. (25+5)
- 11:30 – 11:50 Yoshida (RIKEN) – Exotic modes of excitation in deformed neutron-rich nuclei. (15+5)
- 11:50 – 12:10 Gottardo (INFN) – Shell evolution in the newly explored neutron-rich region around Z=82 and far beyond N=126. (15+5)
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Chair: Wadsworth

- 13:45 – 14:05 Kruecken (Munich) – ^{100}Sn and neighboring nuclei. (15+5)
- 14:05 – 14:25 Cederwall (Stockholm) – Identification of excited states in the N=Z nucleus ^{92}Pd : Evidence for a new spin-aligned neutron-proton coupling scheme. (15+5)
(Refreshments available)
- 14:25 – 14:45 Baroni (TRIUMF) – Partial-wave contributions to pairing in nuclei. (15+5)
- 14:45 – 15:05 Grzywacz (U. Tenn) – Nuclear pairing and alpha decays near ^{100}Sn . (15+5)
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Chair: Radford

- 15:30 – 16:00 Lee (LBNL) – Status of GRETINA. (25+5)
- 16:00 – 16:30 Glasmacher (MSU) – Status of FRIB. (25+5)
- 16:30 – 16:45 Riley (FSU) – Summary and Farewell
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